

Assessment Impact by Course Objectives  
Palau Community College  
Program (AM) - Automotive Mechanics Technology

**Program (AM) - Automotive Mechanics Technology**

**CLO: AM 112 - Engine Servicing I: CLO 1**

Service Engine Electrical System

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name engine electrical system parts and explain their operating principles. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Check ignition system input and output supply, service distributor assembly, adjust ignition timing, check centrifugal advancer, check vacuum advancer and servicing spark plug, check pre-heating system power supply, check pre-heating relay and timer, check glow plug performance, check pre-heating system power supply, check pre-heating relay and timer, and check glow plug performance. <b>Signature assignment:</b> Practical Application Task List	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Task List - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; 1 is competent and 2 are highly competent. Therefore, 100% of the students assessed passed the skills assessment.  Analyzed results: The students established their expertise on servicing engine electrical system.  Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		2015-2016 (Fall 2015)
Final Exam - 12/30/2015 - 67% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b>	12/30/2015 - Actual results: 2 out of 3 students are proficient; None are competent and 2 are highly competent. Therefore, 67% of the students assessed passed the knowledge test.		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<a href="#">AM-112 knowledge clo 1 &amp; 2 fall 2015.pdf</a>	<p>Analyzed results: The students have problems on grasping the concepts of engine electrical system.</p> <p>Recommendations: Modify course content for technology update.</p> <p>Action plan: Modify course content before March 2016.</p>		

<p>Practical Application Task List - 12/22/2014 - 95% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes</p> <p><b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2014.pdf</a></p>	<p>12/22/2014 - Invite walk-in customers to bring their cars in the shop for engine electrical system servicing; this will help students to improve their skills through hands-on practice.</p>		2014 - 2015 (Fall 2014)
<p>Final Exam - 12/22/2014 - 57% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No</p> <p><b>Related Documents:</b> <a href="#">AM-112 scan knowledge CLO 1 &amp; 2 fall 2014.pdf</a></p>	<p>12/22/2014 - Establish posters, visual aid, and film viewing / showing on engine electrical system to enhance lecture effectiveness.</p>		2014 - 2015 (Fall 2014)
<p>Final Exam - 02/24/2014 - 7% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No</p>	<p>02/24/2014 - There is a need to do more film viewing and mock-up engine electrical to help students succeed in the written part of the assessment; this will help them retain the knowledge and information learned to be assessed during the later part of a given semester.</p>		2013 - 2014 (Fall 2013)
<p>Final Exam - 01/31/2014 - 54% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No</p>	<p>02/21/2014 - add film viewing activities for electrical operating principles and concepts</p>		2013 - 2014 (Fall 2013)

### CLO: AM 112 - Engine Servicing I: CLO 2

Perform Engine Tuning

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

### Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Name engine fuel system parts and components and explain engine operating principles, carbureted system, diesel fuel system, and EFI system. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Clean diesel fuel lines, replace fuel filter, bleed air at fuel lines, check fuel pump assembly, replace fuel filter, overhaul carburetor assembly, and servicing fuel tank. <b>Signature assignment:</b> Practical Application Task List	70% of the students assessed will perform at the proficiency level.		Yes

### Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Task List - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; all students are highly competent. Therefore, 100% of the students assessed passed the skills assessment.  Analyzed results: The students established their expertise on engine tuning.  Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		2015-2016 (Fall 2015)
Final Exam - 12/31/2015 - 67% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-112 knowledge clo 1 &amp; 2 fall 2015.pdf</a>	12/31/2015 - Actual results: 2 out of 3 students are proficient; one is competent and 2 are highly competent. Therefore, 67% of the students assessed passed the knowledge test.  Analyzed results: The students have problems on grasping the concepts of four stroke cycle engine.  Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		2015-2016 (Fall 2015)
Practical Application Task List - 12/22/2014 - 95% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2014.pdf</a>	12/22/2014 - Establish engine mock-ups for engine tuning to help students improve their skills through hands-on practice. Purchase G-scan diagnostic tool to help students identify engine problem and identify		2014 - 2015 (Fall 2014)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/22/2014 - 48% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-112 scan knowledge CLO 1 &amp; 2 fall 2014.pdf</a>	12/22/2014 - Establish posters, visual aid, and film viewing / showing on engine tuning to enhance lecture effectiveness.		2014 - 2015 (Fall 2014)

### CLO: AM 112 - Engine Servicing I: CLO 3

Service Engine Valve Mechanism

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name valve mechanism parts and components and explain their operating principles. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Adjust valve clearance, replace hydraulic type valve lifter, install camshaft sub-gears, and check camshaft to crankshaft timing. <b>Signature assignment:</b> Practical Application Task List	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Task List - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; all students are highly competent. Therefore, 100% of the students assessed passed the skills assessment.  Analyzed results: The students established good retention on knowledge and skills on servicing engine valve mechanism.  Recommendations: Modify course content for technology update.		2015-2016 (Fall 2015)
Final Exam - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 knowledge clo 3, 4, &amp; 5 fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; all students are highly competent. Therefore, 100% of the students assessed passed the knowledge test.  Analyzed results: The students established good retention on		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	knowledge and skills on servicing engine valve mechanism.  Recommendations: Modify course content for technology update.		
Practical Application Task List - 12/22/2014 - 88% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2014.pdf</a>	12/22/2014 - Establish engine mock-ups to help students improve their skills in servicing engine valve mechanism through hands-on practice.		2014 - 2015 (Fall 2014)
Final Exam - 12/22/2014 - 95% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan knowledge clo 3, 4, 5 fall 2014.pdf</a>	12/22/2014 - Establish posters, visual aid, and film viewing / showing on under chassis problem to enhance lecture effectiveness.		2014 - 2015 (Fall 2014)

#### CLO: AM 112 - Engine Servicing I: CLO 4

Conduct Engine Cooling System Preventive Maintenance

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name cooling system parts and components and explain their operating principles. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Check cooling fan, check radiator hose condition, change engine coolant, and clean water jacket and passages. <b>Signature assignment:</b> Practical Application Task List	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Task List - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; one is competent and 2 are highly competent. Therefore, 100% of the students assessed passed the skills test.  Analyzed results: The students established a good retention on		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	knowledge and skills on servicing lubrication system. Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		
Final Exam - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes  <b>Related Documents:</b> <a href="#">AM-112 knowledge clo 3, 4, &amp; 5 fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; 2 are competent and one is highly competent. Therefore, 100% of the students assessed passed the knowledge test.  Analyzed results: The students established good retention on knowledge and skills on servicing lubrication system.  Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		2015-2016 (Fall 2015)
Practical Application Task List - 12/22/2014 - 90% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes  <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2014.pdf</a>	12/22/2014 - Establish engine mock-ups to help students improve their skills in servicing engine cooling system through hands-on practice.		2014 - 2015 (Fall 2014)
Final Exam - 12/22/2014 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes  <b>Related Documents:</b> <a href="#">AM-112 scan knowledge clo 3, 4, 5 fall 2014.pdf</a>	12/22/2014 - Establish posters, visual aid, and film viewing / showing on engine cooling to enhance lecture effectiveness.		2014 - 2015 (Fall 2014)

**CLO: AM 112 - Engine Servicing I: CLO 5**

Perform Engine Lubrication System Preventive Maintenance

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

### Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Name lubrication system parts and components and explain their operating principles. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Change oil filter, change engine, perform engine oil flushing/cleaning, check engine oil pressure, and check engine oil leakage. <b>Signature assignment:</b> Practical Application Task List	70% of the students assessed will perform at the proficiency level.		Yes

### Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Task List - 12/31/2015 - 100% of the students assessed performed at the proficiency level <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 scan skills fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; all students are highly competent. Therefore, 100% of the students assessed passed the skills test.  Analyzed results: The students established a good retention on knowledge and skills on servicing lubrication system.  Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		2015-2016 (Fall 2015)
Final Exam - 12/31/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-112 knowledge clo 1 &amp; 2 fall 2015.pdf</a>	12/31/2015 - Actual results: 3 out of 3 students are proficient; all students highly competent. Therefore, 100% of the students assessed passed the knowledge test.  Analyzed results: The students established a good retention on knowledge and skills on servicing lubrication system.  Recommendations: Modify course content for technology update.  Action plan: Modify course content before March 2016.		2015-2016 (Fall 2015)
Practical Application Task List - 12/22/2014 - 81% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b>	12/22/2014 - Establish engine mock-ups to help students improve their skills in servicing engine lubrication system through hands-on practice.		2014 - 2015 (Fall 2014)

## Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p><a href="#">AM-112 scan skills fall 2014.pdf</a></p> <p>Final Exam - 12/22/2014 - 88% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> Yes</p> <p><b>Related Documents:</b> <a href="#">AM-112 scan knowledge clo 3, 4, 5 fall 2014.pdf</a></p>	<p>12/22/2014 - Establish posters, visual aid, and film viewing / showing on engine lubrication system to enhance lecture effectiveness.</p>		<p>2014 - 2015 (Fall 2014)</p>